

WHAT IS CLAIMED IS:

1. A mechanism for adjustable installation of the surface of a band plate-like member supported at both ends thereof comprising:

a band plate-like member;

5 a container, said container having at least one opening on a side to allow a surface of said band plate-like member to be exposed from the opening;

a mechanism coupled to said band plate-like member for adjustment thereof; and

support shafts linkable to said mechanism for adjustable installation provided on both ends of said container.

2. A mechanism for adjustable installation of the surface of a band plate-like member supported at both ends thereof comprising:

a band plate-like member;

holders for housing opposite ends of said band plate-like member

5 a mechanism coupled to said holders for adjustment thereof; and

support shafts linkable to said holders.

3. The mechanism for adjustable installation of the band plate-like according to claim 1 wherein:

said support shafts are extended in a longitudinal direction of the band plate-like member,

5 each of said support shaft is loosely fitted into a through hole formed on a holder plate so as to allow the support shaft to be freely decentered within the through hole,

an adjustment plate is linked to a portion projecting outwardly from said holder plate of said support shaft, and

10 said adjustment plate is moved relative to the holder plate to thereby make said support shaft movable in a direction intersecting the support shaft as well as said adjustment plate is rotated relative to the holder plate to thereby make said band plate-like member rotatable about the support shaft.

09879012-061201

09879012.064201

4. The mechanism for adjustable installation of the band plate-like according to claim 2 wherein:

said support shafts are extended in a longitudinal direction of the band plate-like member,

5 each of said support shaft is loosely fitted into a through hole formed on a holder plate so as to allow the support shaft to be freely decentered within the through hole,

an adjustment plate is linked to a portion projecting outwardly from said holder plate of said support shaft, and

10 said adjustment plate is moved relative to the holder plate to thereby make said support shaft movable in a direction intersecting the support shaft as well as said adjustment plate is rotated relative to the holder plate to thereby make said band plate-like member rotatable about the support shaft.

5. The mechanism for adjustable installation of the band plate-like member according to claim 3, wherein said band plate-like member has a flat surface.

6. The mechanism for adjustable installation of the band plate-like member according to claim 4, wherein said band plate-like member has a flat surface.

7. The mechanism for adjustable installation of the band plate-like member according to claim 5, wherein said support shaft is moved to thereby make said band plate-like member movable in a direction of thickness of said band plate-like member.

8. The mechanism for adjustable installation of the band plate-like member according to claim 6, wherein said support shaft is moved to thereby make said band plate-like member movable in a direction of thickness of said band plate-like member.

9. The mechanism for adjustable installation of the band plate-like member according to claim 5, wherein said support shaft is moved to thereby make said band plate-like member movable in a direction of width of said band plate-like member.

10. The mechanism for adjustable installation of the band plate-like member according to claim 6, wherein said support shaft is moved to thereby make said band plate-like member movable in a direction of width of said band plate-like member.

11. The mechanism for adjustable installation of the band plate-like member according to claim 3, wherein said band plate-like member has a cylindrical surface.

12. The mechanism for adjustable installation of the band plate-like member according to claim 4, wherein said band plate-like member has a cylindrical surface.

13. The mechanism for adjustable installation of the band plate-like member according to claim 11, wherein said support shaft is moved to thereby make said band plate-like member movable in a direction of normal of a surface of said band plate-like member.

14. The mechanism for adjustable installation of the band plate-like member according to claim 12, wherein said support shaft is moved to thereby make said band plate-like member movable in a direction of normal of a surface of said band plate-like member.

15. The mechanism for adjustable installation of the band plate-like member according to claim 11, wherein said support shaft is moved to thereby make said band plate-like member movable in a direction intersecting a normal of a surface of said band plate-like member.

16. The mechanism for adjustable installation of the band plate-like member according to claim 12, wherein said support shaft is moved to thereby make said band plate-like member movable in a direction intersecting a normal of a surface of said band plate-like member.

17. A mechanism for the adjustable installation of the surface of a band plate-like member, such as a long cylindrical mirror, the cylindrical mirror being provided on a desired frame and supported at both ends thereof, said mechanism comprising:

09879012-061201

a mirror container, having at least one opening on a surface, for housing said cylindrical mirror to allow a reflecting face of the cylindrical mirror to be exposed from the opening,

5 support shafts extending in a longitudinal direction of the cylindrical mirror and provided on both ends of said mirror container,

holder plates loosely fitted onto said respective support shafts, and

an adjustment plate linked to a portion projecting outwardly from said holder plate of said support shaft, wherein said holder plate is made slidable in a direction intersecting said support shaft with respect to a surface of said frame for arranging the cylindrical mirror
10 thereon, said adjustment plate is made slidable in a direction intersecting a sliding direction of the holder plate with respect to the holder plate, and said mirror container is made rotatable about the support shaft.

18. The mechanism for adjustable installation of the cylindrical mirror according to claim 17, wherein

any one of said holder plates is appropriately clearance-fitted onto a support shaft to serve as a restraint holder plate,

5 the other holder plate is appropriately loosely fitted onto a support shaft to allow the support shaft to be freely decentered and is thereby allowed to serve as a loose-fit holder plate,

said adjustment plate located outside said restraint holder plate is employed as an engagement adjustment plate for engaging and disengaging the support shaft, and said engagement adjustment plate is rotated with respect to the restraint holder plate to thereby allow
10 the mirror container to rotate about the support shaft,

both of said holder plates are made slidable with respect to said frame in a normal direction of a cylindrical mirror, and

said adjustment plate located outside said loose-fit holder plate is employed as an operation adjustment plate, and said operation adjustment plate is made slidable with respect to
15 the loose-fit holder plate in a direction intersecting the normal direction of the cylindrical mirror.

19. The mechanism for adjustable installation of the cylindrical mirror according to claim 17, wherein:

any one of said holder plates is appropriately clearance-fitted onto a support shaft to serve as a restraint holder plate,

the other holder plate is appropriately loosely fitted onto a support shaft to allow the support shaft to be freely decentered and is thereby allowed to serve as a loose-fit holder plate,

said adjustment plate located outside said restraint holder plate is employed as an engagement adjustment plate for engaging and disengaging the support shaft, and said engagement adjustment plate is rotated with respect to the restraint holder plate to thereby allow the mirror container to rotate about the support shaft,

both of said holder plates are made slidable with respect to said frame in a direction of an incident beam of light to a cylindrical mirror, and

said adjustment plate located outside said loose-fit holder plate is employed as an operation adjustment plate, and said operation adjustment plate is made slidable with respect to the loose-fit holder plate in a direction intersecting a normal direction of the cylindrical mirror.

20. The mechanism for adjustable installation of the cylindrical mirror according to claim 18, wherein:

said restraint holder plate and said loose-fit holder plate are molded in the same shape and said support shafts are provided with different outer diameters, and

the support shaft for engaging and disengaging said engagement adjustment plate is provided with engagement means for preventing said engagement adjustment plate from being released.

21. The mechanism for adjustable installation of the cylindrical mirror according to claim 19, wherein:

said restraint holder plate and said loose-fit holder plate are molded in the same shape and said support shafts are provided with different outer diameters, and

the support shaft for engaging and disengaging said engagement adjustment plate is provided with engagement means for preventing said engagement adjustment plate from being released.